

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



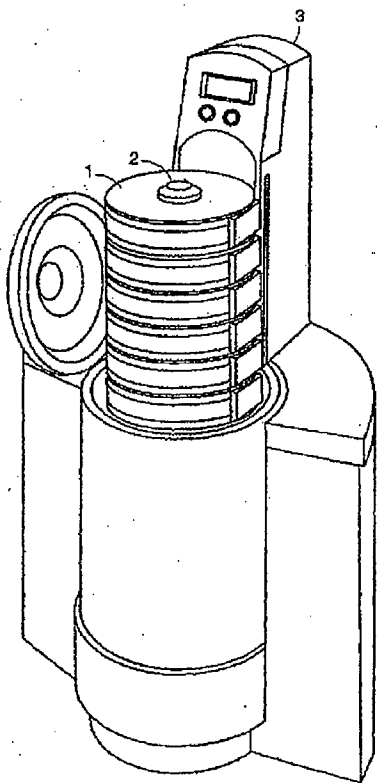
(43) International Publication Date  
3 January 2003 (03.01.2003)

PCT

(10) International Publication Number  
**WO 03/000380 A1**

- (51) International Patent Classification: **B01D 21/26**, 35/00, B04B 5/00, 9/06
- (21) International Application Number: **PCT/US01/47266**
- (22) International Filing Date: 22 October 2001 (22.10.2001)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 09/885,542 20 June 2001 (20.06.2001) US
- (71) Applicant: **MEDICEPT, INC.** [US/US]; 200 Homer Avenue, Ashland, MA 01721 (US).
- (72) Inventor: **JORGENSEN, Glen**; 38 Beverly Drive, Marlboro, MA 01752 (US).
- (74) Agents: **HAZZARD, Lisa**, Swiszc et al.; Dike, Bronstein, Roberts & Cushman, Intellectual Property Practice Group of Edwards &, Angell, LLP, P.O. Box 9169, Boston, MA 02209 (US).
- (81) Designated States (*national*): CN, JP.
- (84) Designated States (*regional*): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).
- Published:  
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: BLOOD COMPONENT PREPARATION (BCP) DEVICE AND METHOD OF USE THEREOF



(57) Abstract: Automated blood separation method and apparatus that allows for simultaneous separation of multiple units of whole blood into its components. An auto-balancing feature within the apparatus automatically compensates for a changing state of imbalance, thereby eliminating the need for additional balancing steps during the separation process. The apparatus has a plurality of cassettes (1) placed on a drive shaft (2). The cassettes (1) have a number of sections for the containment of the whole blood and for the separated blood components, which are contained in disposable bags. The drive shaft (2) is placed in a centrifuge (3), and the blood components are then separated and transferred to bags in the sections of the cassettes (1). Secondary separation devices such as filters may be included. The manufacturing information regarding the lot identities used and the conditions under which each unit was processed is also included.

WO 03/000380 A1